

# CSE 344 Section 3 Worksheet

## SQL Aggregates Practice

```
CREATE TABLE Movies (id int PRIMARY KEY, name varchar(30),
                      budget int, gross int, rating int, year int);
CREATE TABLE Actors (id int PRIMARY KEY, name varchar(30), age int);
CREATE TABLE ActsIn (mid int REFERENCES Movies(id),
                      aid int REFERENCES Actors(id));
```

What is the minimum age of an actor who has appeared in a movie where the gross of the movie has been over \$1,000,000,000?

What is the name and budget of each movie released in 2017 whose oldest actor is less than 30?

## More Challenging

```
CREATE TABLE Class (
    dept VARCHAR(50),
    number INT,
    title VARCHAR(50),
    PRIMARY KEY (dept, number));

CREATE TABLE Instructor (
    username VARCHAR(50) PRIMARY KEY,
    fname VARCHAR(50),
    lname VARCHAR(50),
    started_on CHAR(10));

CREATE TABLE Teaches(
    username VARCHAR(50), -- alternately, can use the REFERENCES syntax here
    dept VARCHAR(50),
    number INT,
    PRIMARY KEY (username, dept, number),
    FOREIGN KEY (username) REFERENCES Instructor,
    FOREIGN KEY (dept, number) REFERENCES Class);
```

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1. For each instructor, return their username and the number of classes they teach.
2. Return the first and last name of the newest instructor(s) (who started on the latest date). Assume Instructor.started\_on uses yyyy-mm-dd format. If there are multiple instructors, list all of them.
3. How many classes are currently being taught by at least one instructor?
4. Return the first name and last name of the instructors who teach the most number of classes. If there are multiple instructors, list all of them.